

# Program LISA Summer Academy 2017

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| <b>Sunday Aug. 13<sup>th</sup></b> | <b>Welcome Evening<br/>TWINCORE: Room 0.02</b> |  |
| 16:00-17:00                        | Registration                                   |  |
| 17:00-19:00                        | Welcome, Drinks and Snacks                     |  |

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| <b>Monday Aug. 14<sup>th</sup></b> | <b>Pattern Recognition Receptors, Dendritic Cells, PhD Programs (HBRS), TWINCORE: Room 0.02</b> |   |
| 09:00-10:00                        | Tim Sparwasser  | Welcome Introduction  |
|                                    | Reinhold Förster*   | Topic Overview  |
| 10:00-10:30                        | Reinhold Förster  | Dendritic cells and the formation of tertiary lymphoid organs |
|                                    | Coffee Break  |   |
| 10:30-12:00                        | Ulrich Kalinke*   | Plasmacytoid dendritic cells in antiviral defence             |
|                                    | Niko Föger  | Novel regulatory themes in TLR4-mediated inflammation         |
| 12:00-14:00                        | Georg Behrens   | Divide and conquer: dendritic cells in adaptive immunity      |
|                                    | Lunch with Speakers   |   |
| 14:00-15:30                        | Christopher Baum  | Dean of the MHH   |
|                                    | Reinhold E. Schmidt*  | HBRS PhD Programs, MolMed PhD Program                         |
|                                    | Ulrich Martin   | Reg Sciences PhD Program                                      |
|                                    | Reinhold Förster  | ZIB PhD Program   |
|                                    | Christine Falk  | Info: Career Advice, Stipends, Women in Science               |
| 15:30-16:00                        | Coffee Break  |   |
| 16:00-17:00                        | Orientation Tour MHH  |   |
| 17:00-21:00                        | Twincore invites: Snacks, Happy Hour  |   |

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| <b>Tuesday Aug. 15<sup>th</sup></b> | <b>Lung Inflammation, Asthma, Allergy<br/>TWINCORE: Room 0.02</b> |  |
| 9:00-10:00                          | Tim Sparwasser*   | Topic Overview   |
|                                     | Carlos Guzman   | Cyclic-di-nucleotides: promising tool to activate DC and promote humoral and cellular responses post vaccination |
| 10:00-10:15                         | Coffee Break  |  |
| 10:15-12:30                         | Susanne Häußler*  | Treatment Challenges of Chronic Pseudomonas aeruginosa Infections  |
|                                     | Gesine Hansen   | Intrapulmonary Cell Therapy for Lung Diseases  |
|                                     | Coffee Break (15 min)   |  |
|                                     | Thomas Werfel   | T-cells and antigen-presenting cells in chronic cutaneous inflammation   |
|                                     | Armin Braun*  | Neuroimmune Interactions in allergic asthma  |
| 12:30-14:00                         | Lunch with Speakers   |  |
| 14:00-15:30                         | Students Poster Presentation I                                    |  |
| 15:30-16:00                         | Coffee Break  |  |
| 16:00-17:00                         | Students Poster Presentation II                                   |  |
| 17:00-18:00<br>Lecture Hall G       | <b>Cecilia Johansson (KFO250)</b>                                 | <b>Regulation of lung inflammation during viral infection</b>  |

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| <b>Wednesday Aug. 16<sup>th</sup></b> | <b>Regeneration, Hematopoietic Progenitors,<br/>TWINCORE: Room 0.02</b> |   |
| 9:00-10:15                            | Axel Schambach*   | Topic Overview                          |
|                                       | Axel Schambach  | Genetic modification of stem cells      |
| 10:15-10:45                           | Coffee Break  |   |
| 10:45-12:15                           | Tim Sparwasser*   | Genetic mouse models                    |
|                                       | Kyeong-Hee Lee  | Immune modulation by regulatory B cells |
|                                       | Dirk Heckl  | CRISPR-Cas9                             |
| 12:15-14:00                           | Lunch with Speakers   |   |
| 14:00-15:30                           | Students Poster Presentation III  |   |
| 15:30-16:00                           | Coffee Break  |   |
| 16:00-17:30                           | Students Poster Presentation VI   |   |
| Evening                               | GOP Theatre   |   |

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| <b>Thursday Aug. 17<sup>th</sup></b> | <b>Homeostasis and Inflammation in the intestine<br/>Immunity, Inflammation and Cancer<br/>TWINCORE: Room 0.02</b> |  |
| 9:00-10:00                           | Matthias Lochner*  | Topic Overview   |
|                                      | Matthias Lochner   | RORγt expressing cells and their role in intestinal immune regulation and inflammation     |
| 10:00-10:30                          | Coffee Break   |  |
| 10:30-12:00                          | Till Strowig   | Microbiota and Intestinal Immunity   |
|                                      | Guntram Grassl*  | Intestinal glycans and their interaction with commensal and pathogenic bacteria            |
|                                      | Reinhold E. Schmidt  | Immunodeficiency and Autoimmunity – two sides of the same coin?                            |
| 12:00-14:00                          | Lunch with Speakers  |  |
| 14:00-16:15                          | Christine Falk*  | NK cells in Autoimmunity   |
|                                      | Abel Viejo-Borbolla  | Learning from viruses: viral modulation of cytokine activity                               |
|                                      | Coffee Break (15 min)  |  |
|                                      | Thomas Pietschmann*  | Pathways and barriers of hepatitis C virus replication                                     |
| 16:15-17:00                          | Christine Goffinet   | Emerging restriction factors of viral infections   |
|                                      | Coffee Break   |  |
| 17:00-18:00<br>Lecture Hall G        | <b>Allan Mowat (KFO250)</b>  | <b>Tissue specific differentiation of macrophages and dendritic cells in the intestine</b> |

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| <b>Friday, Aug. 18<sup>st</sup></b> | <b>Tregs, Th17, Gamma Delta T Cells, Autoimmunity<br/>TWINCORE: Room 0.02</b> |  |
| 9:00-10:00                          | Jochen Hühn*  | Topic Overview   |
|                                     | Jochen Hühn   | Epigenetic fixation of T cell fates  |
| 10:00-10:30                         | Coffee Break  |  |
| 10:30-11:30                         | Luciana Berod   | Metabolic regulation of T cell function  |
|                                     | Tim Sparwasser*   | Tregs in infection and vaccinology: heroes or traitors   |
| 11:30-14:00                         | Lunch with Speakers   |  |
| 14:00-16:15                         | Ingo Schmitz  | Tregs - something on their birth and their death   |
|                                     | Immo Prinz*   | IL-17 producing gamma-delta T cells  |
|                                     | Coffee Break (15 min)   |  |
|                                     | André Bleich*   | Colitis susceptibility in IL10-deficient mice depends on complex genetic and microbial factors |
| 17:00-18:00<br>Lecture Hall G       | Martin Stangel  | T cell – glia interactions in neuroinflammation  |
|                                     | <b>Joao Santana da Silva</b>  | <b>Innate immune response to a highly pathogenic fungal infection</b>                          |
| 18:00 – Open End                    | Twincore invites: Barbecue, get together with HBRS students                   |  |

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| <b>Saturday, Aug. 19<sup>th</sup></b> |   |  |
| 15:00                                 | City Tour Hannover                        |  |
| 18:00                                 | Firework Competitions Herrenhäuser Gärten |  |

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| <b>Sunday, Aug. 20<sup>th</sup> FREE</b> |  |  |
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| <b>Aug. 21<sup>st</sup>-27<sup>th</sup></b>                      |                                    | <b>Lab Rotations</b>                                    |
| Monday Aug. 21 <sup>st</sup><br>17:00-18:00<br>Lecture Hall G    | <b>Pierre Guermonprez (SFB900)</b> | <b>Monocyte heterogeneity and function</b>              |
| Tuesday Aug. 22 <sup>nd</sup>                                    | 9:00-11:00                         | MHH: Demonstration HUB / IVIS / Metabolomics/Proteomics |
| Wednesday Aug. 23 <sup>rd</sup><br>17:00-18:00<br>Lecture Hall G | <b>Jeff Rathmell (SFB900)</b>      | <b>Fueling T cells in Inflammation and Tumors</b>       |
| Thursday Aug. 24 <sup>th</sup>                                   | 18:00-19:00                        | Closing remarks, round table discussion & feedback      |
|  | 19:00-21:00                        | Twincore Invitation: Happy Hour & Snacks                |

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| <b>Aug. 28<sup>th</sup> – Sept. 3<sup>rd</sup></b> | <b>Lab Rotations</b> |
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| <b>Sept. 4<sup>th</sup> – Sept 10<sup>th</sup></b> | <b>Lab Rotations</b> |
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\* Chairs of the respective session